

ABSTRACT

The present invention restrains generation of an eddy current caused by leaked magnetic flux; and reduces iron loss due to the eddy current.

A tooth 61 is mounted to a stator yoke 60 in a state in which at least part of it (a portion 81 to be inserted into the yoke) is inserted into an insertion hole 75 formed through the magnet-opposed surface of the stator yoke 60, and the cross-sectional area S1 (See Fig. 6A) of the portion 81 of the tooth 61 to be inserted into the yoke, which is taken perpendicularly with respect to lines of magnetic force B1 generated at the tooth 61 when a coil 62 is energized, is larger than the cross-sectional area S2 (See Fig. 6B) of the portion 82 to be disposed within the coil of the tooth 61, which is taken perpendicularly with respect to the lines of the magnetic force B1.